

January 19, 2017

Mr. Nigam Tripathi  
W-L Molding  
WPI, LLC  
16685 150<sup>th</sup> Ave.  
Spring Lake, Michigan 49456

*Re: Soil Sampling Activities, Air Compressor Blowdown Discharge Area, W-L Molding, 8212 Shaver Road, Portage, Michigan.*

Dear Mr. Tripathi:

This correspondence serves to provide the results of soil sampling activities related to the discharge from two air compressor units at the above referenced site. This work was completed by Envirologic under direction from the Kalamazoo County Brownfield Redevelopment Authority (KCBRA) and funded by the KCBRA's U.S. EPA Brownfield Assessment Grant for Petroleum Contaminated Sites. Eligibility to utilize the U.S. EPA Assessment Grant was secured on November 9, 2016.

## BACKGROUND

The property is located at 8212 Shaver Road in Portage, Michigan. The property has been occupied by W-L Molding, a plastic parts manufacturer, since approximately 1953. A Phase I Environmental Site Assessment (ESA) was completed by McDowell & Associates on April 9, 2015. Among the various Recognized Environmental Conditions noted in the Phase I ESA, McDowell & Associates identified the discharge of the air compressor blowdown due to observations of oil in the soil at this location. This was identified as "REC 5" in the Phase I ESA report. Photographs of the air compressor discharge area are provided in Appendix B.

Subsequently, McDowell & Associates completed a Phase II ESA dated July 31, 2015. Three soil borings were placed in the area of the compressor blowdown (soil borings 6, 6-1 and 6-2). Soil boring 6 was advanced to a depth of one foot below ground level (bgl). The other two soil borings were installed to a total depth of three feet bgl. A soil sample was collected from soil boring 6 at a depth interval of zero to one foot bgl and analyzed for volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PNAs) and polychlorinated biphenyls (PCBs). A soil sample was collected from soil boring 6-1 from a depth interval of one to two feet bgl and analyzed for PNAs. Soil samples were collected from boring 6-2 at depth intervals of zero to one 0-1 feet and two to three feet bgl and analyzed for PNAs.

The McDowell & Associates report is not clear on the specific location of these borings in relationship to the actual discharge pipes. The soil boring log for soil boring 6 indicated a sandy soil was encountered with an oily sheen. There was no field evidence of VOC impacts at this location according to photoionization detector (PID) readings. There were no soil boring

logs or details of observations regarding the other soil borings. The laboratory results indicated the presence of benzo(a)pyrene, fluoranthene, and phenanthrene above generic residential cleanup criteria (GRCC) in the soil sample and a duplicate soil sample from soil boring 6. Other PNAs were also detected but below the GRCC. No VOCs or PCBs were detected in the soil samples collected from this area.

The fluoranthene and phenanthrene levels exceeded the Groundwater-Surface Water Interface (GSI) Protection Criteria while benzo(a)pyrene exceeded the generic residential direct contact criterion but not the nonresidential direct contact criterion. Nonetheless, as part of the acquisition and redevelopment of the site, W-L Molding committed to cleaning up this area by rerouting the air compressor discharge so that it no longer discharged to the ground surface and by removing contaminated soil from the area.

Envirologic's work was intended to provide data so that the extent of the future excavation could be adequately defined.

## **SCOPE OF WORK**

Envirologic prepared a Sampling and Analysis Plan (SAP) for project activities. The SAP was submitted to U.S. EPA and approved on December 29, 2017. Envirologic cleared utilities by contacting the one-call clearance service MISSDIG. A Health and Safety Plan was prepared for project activities and also submitted to U.S. EPA.

Envirologic staff mobilized to the site on January 5, 2017. Nigam Tripathi identified the compressor area to Envirologic. He and staff of W-L Molding identified the compressor blowdown discharge pipes on the west end of the compressor room and the discharge from the air dryer unit on the north side of the compressor room. Although not part of the REC identified by McDowell & Associates, Envirologic placed two soil borings in the area of the dryer unit discharge. The purpose of these two soil borings (SB-100 and SB-101) was to make visual observations of the area.

The borings were advanced to a depth of approximately two feet. There was no evidence of oil staining in the soil and very low PID readings (1.2 and 1.5 ppm). No samples were collected from this area for analysis. Two soil borings were placed in the area of the air compressor blowdown discharge pipes (SB-102 and SB-103). These borings were placed directly in line with the discharge pipes four feet west of the northern compressor building wall. SB-102 was placed in line with the northern discharge pipe and SB-103 was placed in line with the southern discharge pipe. A soil sample was collected from each boring at a depth of 1.0 feet bgl utilizing a stainless steel soil sampling probe. The soil sampling equipment was decontaminated between each boring. The two soil samples were submitted to Fibertec

Mr. Nigam Tripathi  
January 19, 2017  
Page 3 of 3

Environmental Services under chain of custody procedures for analysis of PNAs. The results of the laboratory analyses indicated that there were no PNAs detected in the soil sample collected from soil boring SB-102. Low levels of certain PNAs were detected in the soil sample from soil boring SB-103. These levels were all below residential and nonresidential cleanup criteria. Refer to Table 1 in Appendix C for a summary of the soil sample results and a copy of the laboratory analytical report. Please note that the laboratory analytical report includes results from other soil samples collected at the site. Those results are discussed in different correspondence.

## CONCLUSIONS

The data demonstrates that the impacted soil identified by McDowell & Associates work is limited in nature. Once the air compressor discharge is rerouted to an alternate discharge location (i.e., sanitary sewer or holding tank), a shallow excavation would be expected to remove all of the identified contaminated soil. The rectangular excavation should extend from the northwest corner of the compressor building 4.0 feet to the west and 9.0 feet to the south parallel with the building. The excavation should be no less than one foot deep. It is possible that immediately beneath the discharge pipes along the building wall, that the excavation may need to extend to a slightly deeper depth to remove any observed staining or odorous soil. The volume of soil expected to be removed is approximately two cubic yards of soil. Envirologic considers this a *de minimus* issue that can be cleaned up voluntarily without regulatory oversight or intervention.

If you have any questions regarding this matter, please do not hesitate to contact our office at (269) 342-1100.

Sincerely,

**ENVIROLOGIC TECHNOLOGIES, INC.**



David A. Stegink  
Senior Environmental Scientist

cc: Rachael Grover, Kalamazoo County Brownfield Redevelopment Authority  
MDEQ Kalamazoo District Office  
U.S. EPA Region 5

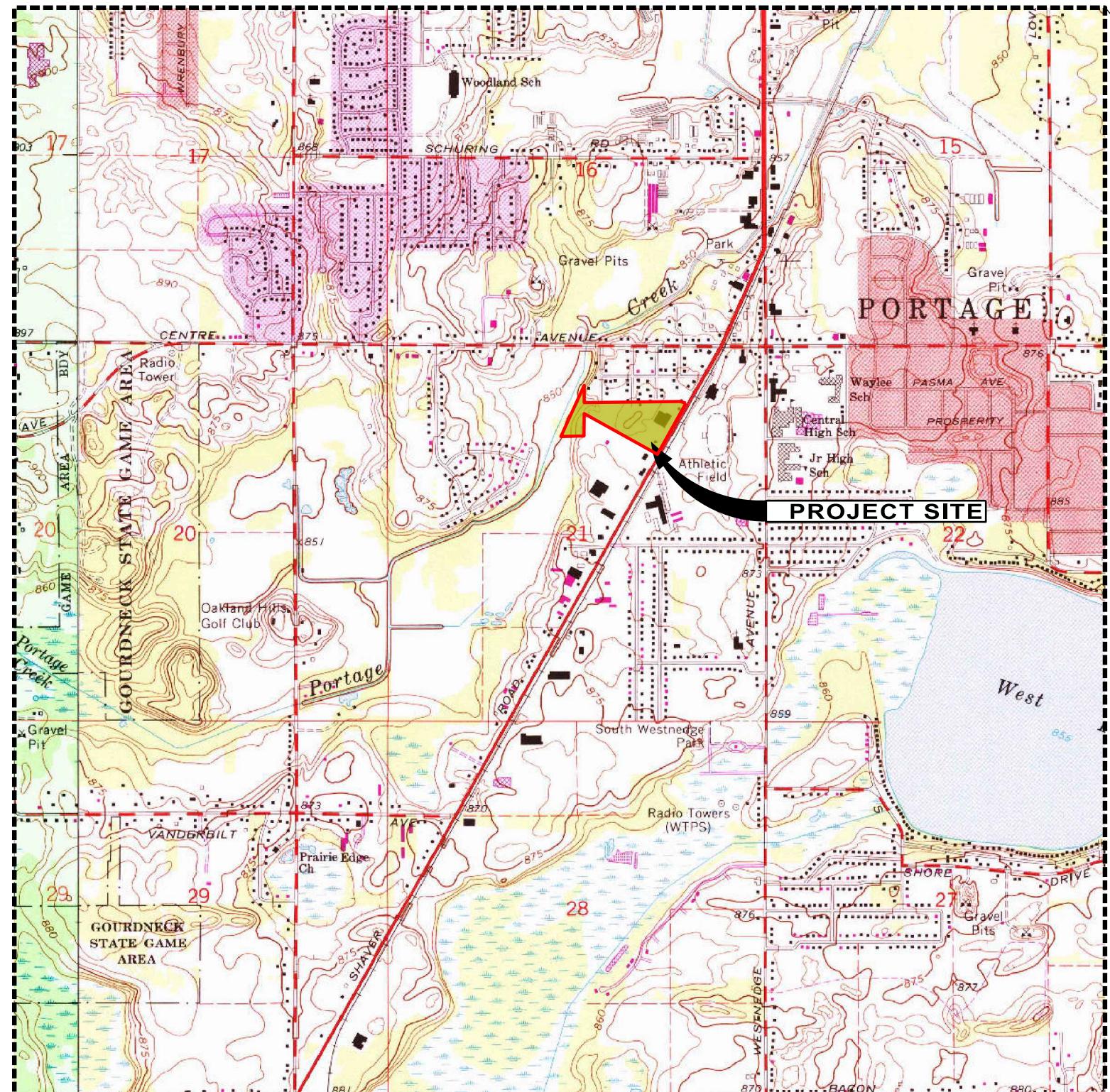


**ATTACHMENT A**

**FIGURES**

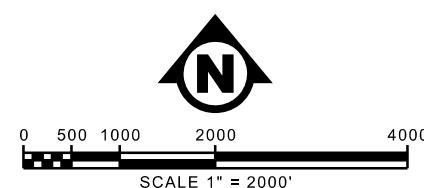
*Location Map  
Site Plan*



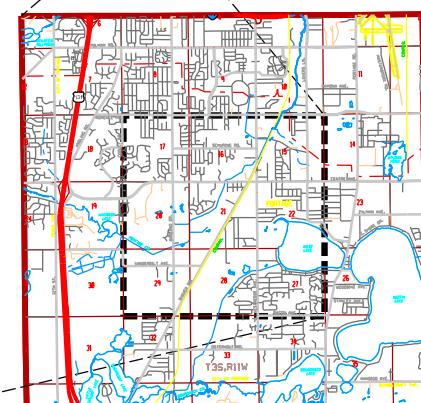


SOURCE: PORTAGE, MICHIGAN USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE MAPS  
MAPTECH® U.S. TERRAIN SERIES™ ©MAPTECH®, INC. 606-433-8500

000000 AAAA File: AA.dgn Model: Location Map



  
**envirologic**  
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2960 INTERSTATE PARKWAY  
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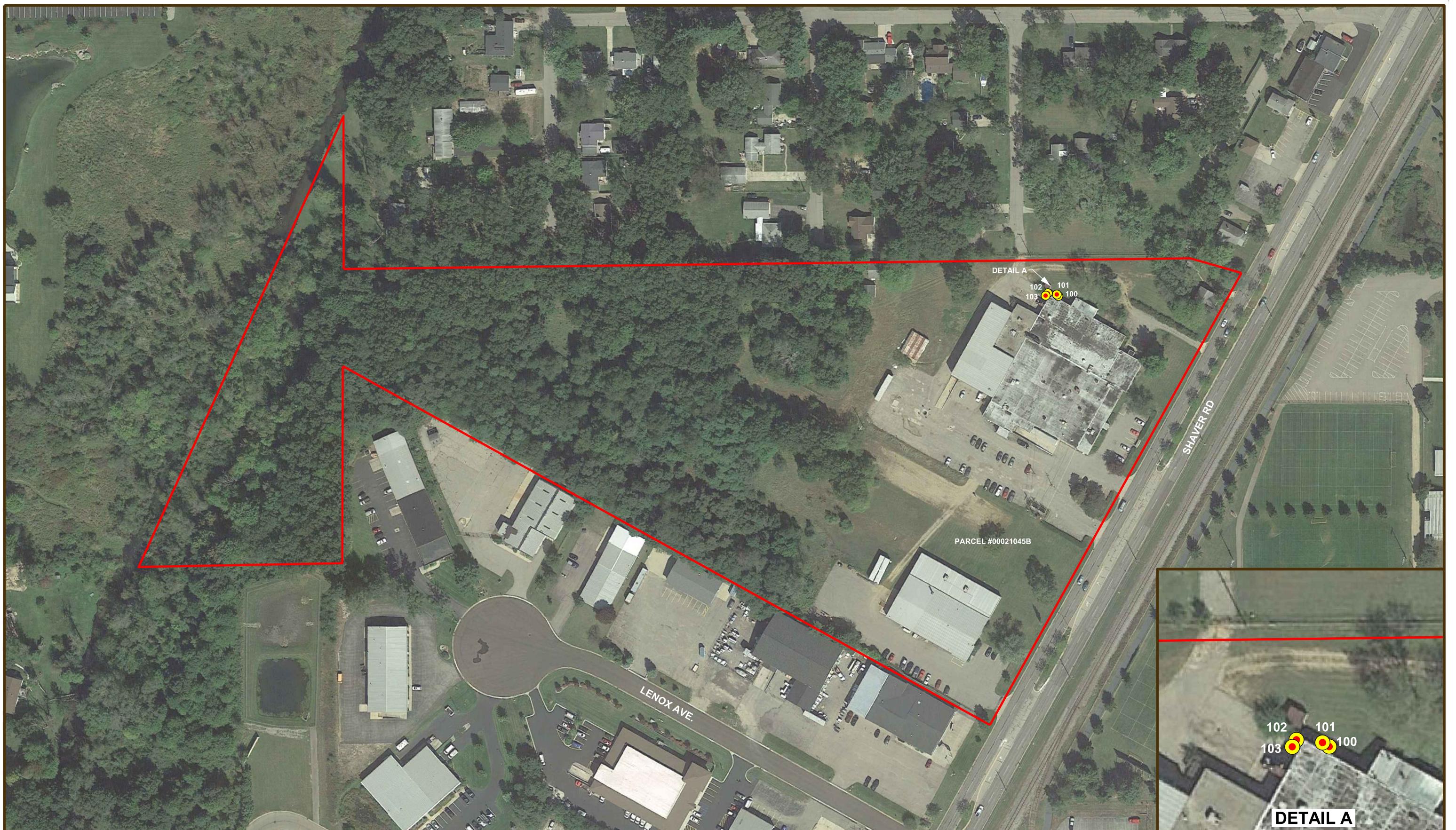
T 3 S. R. 11 W.  
KALAMAZOO COUNTY  
PORTAGE, MICHIGAN

**W-L MOLDING**  
8212 SHAVER RD  
PORTAGE, MI 49024  
**LOCATION MAP**

PROJECT NO.  
160362

FIGURE No.

**1**

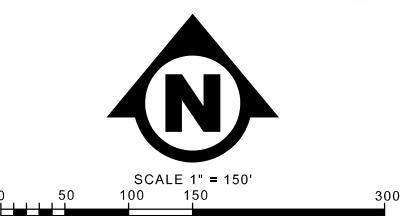


NOTE:  
THIS IS NOT A PROPERTY BOUNDARY SURVEY. PROPERTY BOUNDARIES SHOWN ON THIS MAP  
ARE BASED ON AVAILABLE FURNISHED INFORMATION AND ARE APPROXIMATE ONLY AND  
SHOULD NOT BE USED TO ESTABLISH PROPERTY BOUNDARY LOCATION IN THE FIELD.

000000 AAAA File: Model

#### LEGEND

● HAND AUGER/SOIL BORING LOCATION



**W-L MOLDING**  
8212 SHAVER RD  
PORTAGE, MI 49024

**SITE PLAN**

PROJECT NO.  
160362  
FIGURE No.

2

**ATTACHMENT B**

**PHOTOGRAPHS**





Air dryer discharge location on left and blowdown discharge to the right



Air compressor blowdown snow cleared area



Soil boring SB-102.



Southern discharge pipe and stained soil

**ATTACHMENT C**  
**SOIL DATA TABLE**  
**LABORATORY ANALYTICAL REPORT**



Table 1.  
Soil Analytical Data Compared to Non-Residential Cleanup Criteria

Hazardous Substance	SB-102 @ 1'	SB-103 @ 1'	Chemical Abstract Service Number	Groundwater Protection			Indoor Air	Ambient Air		Contact
				Residential Drinking Water Protection Criteria	Nonresidential Drinking Water Protection Criteria	Groundwater Surface Water Interface Protection Criteria		Infinite Source Volatile Soil Inhalation Criteria (VSIC)	Particulate Soil Inhalation Criteria	
Benzo(a)anthracene	< 330	370	56553	NLL	NLL	NLL	NLV	NLV	ID	80,000
Benzo(b)fluoranthene	< 330	420	205992	NLL	NLL	NLL	ID	ID	ID	80,000
Fluoranthene	< 330	800	206440	7.30E+05	7.30E+05	5,500	1.0E+9 (D)	8.90E+08	4.10E+09	1.30E+08
Phenanthrene	< 330	390	85018	56,000	1.60E+05	2,100	5.10E+06	1.90E+05	2.90E+06	5.20E+06
Pyrene	< 330	670	129000	4.80E+05	4.80E+05	ID	1.0E+9 (D)	7.80E+08	2.90E+09	8.40E+07
All Other PNAs	< 330	< 330	varies	varies	varies	varies	varies	varies	varies	varies

All results in ug/Kg

NLL = Not Likely to Leach

NLV = Not Likely to Volatalize

ID = Insufficient Data to develop criterion

(D) = Calculated criterion exceeds 100 percent, hence it is reduced to 100 percent or

1.0E+9 parts per billion (ppb).

Friday, January 13, 2017

Fibertec Project Number: 76840  
Project Identification: KCBRA (160362) /160362  
Submittal Date: 01/06/2017

Mr. David Stegink  
Envirologic Technologies, Inc.  
2960 Interstate Parkway  
Kalamazoo, MI 49048

Dear Mr. Stegink,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note TO-15 samples will be disposed of 14 days after the reporting date. All other samples will be disposed of 30 days after the reporting date.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,



By Emily Kennedy at 4:14 PM, Jan 13, 2017

For Daryl P. Strandbergh  
Laboratory Director

Enclosures

1914 Holloway Drive  
11766 E. Grand River  
8660 S. Mackinaw Trail

Holt, MI 48842  
Brighton, MI 48116  
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F: (810) 220-3311  
F: (231) 775-8584

Client Identification:	<b>Envirologic Technologies, Inc.</b>	Sample Description:	<b>SB-102 @ 1'</b>	Chain of Custody:	<b>135185</b>
Client Project Name:	<b>KCBRA (160362)</b>	Sample No:	<b>1</b>	Collect Date:	<b>01/05/17</b>
Client Project No:	<b>160362</b>	Sample Matrix:	<b>Soil/Solid</b>	Collect Time:	<b>11:30</b>
<b>Sample Comments:</b> <b>Soil results have been calculated and reported on a dry weight basis unless otherwise noted.</b>					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis.					

<b>Water (Moisture) Content Dried at 105 ± 5°C</b>						<b>Aliquot ID:</b> 76840-001	<b>Matrix: Soil/Solid</b>			
<b>Method: ASTM D2216-10</b>						<b>Description: SB-102 @ 1'</b>				
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	<b>Preparation</b>		<b>Analysis</b>		
						P. Date	P. Batch	A. Date	A. Batch	Init.
† 1. Percent Moisture (Water Content)	9	%		1	1.0	01/09/17	MC170109	01/10/17	MC170109	BMG

<b>Polynuclear Aromatic Hydrocarbons (PNAs)</b>						<b>Aliquot ID:</b> 76840-001	<b>Matrix: Soil/Solid</b>			
<b>Method: EPA 3546/EPA 8270C</b>						<b>Description: SB-102 @ 1'</b>				
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	<b>Preparation</b>		<b>Analysis</b>		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Acenaphthene	U	µg/kg		330	1.0	01/09/17	PS17A09B	01/09/17	SG17A09A	TKT
2. Acenaphthylene	U	µg/kg		330	1.0	01/09/17	PS17A09B	01/09/17	SG17A09A	TKT
3. Anthracene	U	µg/kg		330	1.0	01/09/17	PS17A09B	01/09/17	SG17A09A	TKT
4. Benzo(a)anthracene	U	µg/kg		330	1.0	01/09/17	PS17A09B	01/09/17	SG17A09A	TKT
5. Benzo(a)pyrene	U	µg/kg		330	1.0	01/09/17	PS17A09B	01/09/17	SG17A09A	TKT
6. Benzo(b)fluoranthene	U	µg/kg		330	1.0	01/09/17	PS17A09B	01/09/17	SG17A09A	TKT
7. Benzo(ghi)perylene	U	µg/kg		330	1.0	01/09/17	PS17A09B	01/09/17	SG17A09A	TKT
8. Benzo(k)fluoranthene	U	µg/kg		330	1.0	01/09/17	PS17A09B	01/09/17	SG17A09A	TKT
9. Chrysene	U	µg/kg		330	1.0	01/09/17	PS17A09B	01/09/17	SG17A09A	TKT
10. Dibenzo(a,h)anthracene	U	µg/kg		330	1.0	01/09/17	PS17A09B	01/09/17	SG17A09A	TKT
11. Fluoranthene	U	µg/kg		330	1.0	01/09/17	PS17A09B	01/09/17	SG17A09A	TKT
12. Fluorene	U	µg/kg		330	1.0	01/09/17	PS17A09B	01/09/17	SG17A09A	TKT
13. Indeno(1,2,3-cd)pyrene	U	µg/kg		330	1.0	01/09/17	PS17A09B	01/09/17	SG17A09A	TKT
14. 2-Methylnaphthalene	U	µg/kg		330	1.0	01/09/17	PS17A09B	01/09/17	SG17A09A	TKT
15. Naphthalene	U	µg/kg		330	1.0	01/09/17	PS17A09B	01/09/17	SG17A09A	TKT
16. Phenanthrene	U	µg/kg		330	1.0	01/09/17	PS17A09B	01/09/17	SG17A09A	TKT
17. Pyrene	U	µg/kg		330	1.0	01/09/17	PS17A09B	01/09/17	SG17A09A	TKT

1914 Holloway Drive 11766 E. Grand River 8660 S. Mackinaw Trail	Holt, MI 48842 Brighton, MI 48116 Cadillac, MI 49601	T: (517) 699-0345 T: (810) 220-3300 T: (231) 775-8368	F: (517) 699-0388 F: (810) 220-3311 F: (231) 775-8584
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Client Identification:	<b>Envirologic Technologies, Inc.</b>	Sample Description:	<b>SB-103 @ 1'</b>	Chain of Custody:	<b>135185</b>
Client Project Name:	<b>KCBRA (160362)</b>	Sample No:	<b>2</b>	Collect Date:	<b>01/05/17</b>
Client Project No:	<b>160362</b>	Sample Matrix:	<b>Soil/Solid</b>	Collect Time:	<b>11:35</b>
<b>Sample Comments:</b> <b>Soil results have been calculated and reported on a dry weight basis unless otherwise noted.</b>					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis.					

<b>Water (Moisture) Content Dried at 105 ± 5°C</b>						<b>Aliquot ID:</b> 76840-002	<b>Matrix: Soil/Solid</b>			
<b>Method: ASTM D2216-10</b>						<b>Description: SB-103 @ 1'</b>				
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	<b>Preparation</b>		<b>Analysis</b>		
						P. Date	P. Batch	A. Date	A. Batch	Init.
† 1. Percent Moisture (Water Content)	9		%	1	1.0	01/09/17	MC170109	01/10/17	MC170109	BMG

<b>Polynuclear Aromatic Hydrocarbons (PNAs)</b>						<b>Aliquot ID:</b> 76840-002	<b>Matrix: Soil/Solid</b>			
<b>Method: EPA 3546/EPA 8270C</b>						<b>Description: SB-103 @ 1'</b>				
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	<b>Preparation</b>		<b>Analysis</b>		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Acenaphthene (SIM)	U	G-	µg/kg	330	10	01/09/17	PS17A09B	01/10/17	S617A10A	RDK
2. Acenaphthylene (SIM)	U	G-	µg/kg	330	10	01/09/17	PS17A09B	01/10/17	S617A10A	RDK
3. Anthracene (SIM)	U	G-	µg/kg	330	10	01/09/17	PS17A09B	01/10/17	S617A10A	RDK
4. Benzo(a)anthracene (SIM)	370	G-	µg/kg	330	10	01/09/17	PS17A09B	01/10/17	S617A10A	RDK
5. Benzo(a)pyrene (SIM)	U	G-	µg/kg	330	10	01/09/17	PS17A09B	01/10/17	S617A10A	RDK
6. Benzo(b)fluoranthene (SIM)	420	G-	µg/kg	330	10	01/09/17	PS17A09B	01/10/17	S617A10A	RDK
7. Benzo(ghi)perylene (SIM)	U	G-	µg/kg	330	10	01/09/17	PS17A09B	01/10/17	S617A10A	RDK
8. Benzo(k)fluoranthene (SIM)	U	G-	µg/kg	330	10	01/09/17	PS17A09B	01/10/17	S617A10A	RDK
9. Chrysene (SIM)	U	G-	µg/kg	330	10	01/09/17	PS17A09B	01/10/17	S617A10A	RDK
10. Dibenzo(a,h)anthracene (SIM)	U	G-	µg/kg	330	10	01/09/17	PS17A09B	01/10/17	S617A10A	RDK
11. Fluoranthene (SIM)	800	G-	µg/kg	330	10	01/09/17	PS17A09B	01/10/17	S617A10A	RDK
12. Fluorene (SIM)	U	G-	µg/kg	330	10	01/09/17	PS17A09B	01/10/17	S617A10A	RDK
13. Indeno(1,2,3-cd)pyrene (SIM)	U	G-	µg/kg	330	10	01/09/17	PS17A09B	01/10/17	S617A10A	RDK
14. 2-Methylnaphthalene (SIM)	U	G-	µg/kg	330	10	01/09/17	PS17A09B	01/10/17	S617A10A	RDK
15. Naphthalene (SIM)	U	G-	µg/kg	330	10	01/09/17	PS17A09B	01/10/17	S617A10A	RDK
16. Phenanthrene (SIM)	390	G-	µg/kg	330	10	01/09/17	PS17A09B	01/10/17	S617A10A	RDK
17. Pyrene (SIM)	670	G-	µg/kg	330	10	01/09/17	PS17A09B	01/10/17	S617A10A	RDK

Client Identification:	<b>Envirologic Technologies, Inc.</b>	Sample Description:	<b>SB-104 @ 1'</b>	Chain of Custody:	<b>135185</b>
Client Project Name:	<b>KCBRA (160362)</b>	Sample No:	<b>3</b>	Collect Date:	<b>01/05/17</b>
Client Project No:	<b>160362</b>	Sample Matrix:	<b>Soil/Solid</b>	Collect Time:	<b>11:55</b>
<b>Sample Comments:</b> <b>Soil results have been calculated and reported on a dry weight basis unless otherwise noted.</b>					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis.					

<b>Water (Moisture) Content Dried at 105 ± 5°C</b>	<b>Aliquot ID:</b> 76840-003	<b>Matrix:</b> Soil/Solid								
<b>Method:</b> ASTM D2216-10										
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation	Analysis	A. Date	A. Batch	Init.
† 1. Percent Moisture (Water Content)	7		%	1	1.0	01/09/17	MC170109	01/10/17	MC170109	BMG

<b>Polychlorinated Biphenyls (PCBs)</b>	<b>Aliquot ID:</b> 76840-003	<b>Matrix:</b> Soil/Solid								
<b>Method:</b> EPA 3546/EPA 8082A										
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation	Analysis	A. Date	A. Batch	Init.
1. Aroclor-1016	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT
2. Aroclor-1221	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT
3. Aroclor-1232	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT
4. Aroclor-1242	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT
5. Aroclor-1248	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT
6. Aroclor-1254	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT
7. Aroclor-1260	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT
† 8. Aroclor-1262	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT
† 9. Aroclor-1268	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT

1914 Holloway Drive 11766 E. Grand River 8660 S. Mackinaw Trail	Holt, MI 48842 Brighton, MI 48116 Cadillac, MI 49601	T: (517) 699-0345 T: (810) 220-3300 T: (231) 775-8368	F: (517) 699-0388 F: (810) 220-3311 F: (231) 775-8584
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Client Identification:	<b>Envirologic Technologies, Inc.</b>	Sample Description:	<b>SB-105 @ 1'</b>	Chain of Custody:	<b>135185</b>
Client Project Name:	<b>KCBRA (160362)</b>	Sample No:	<b>4</b>	Collect Date:	<b>01/05/17</b>
Client Project No:	<b>160362</b>	Sample Matrix:	<b>Soil/Solid</b>	Collect Time:	<b>12:05</b>
<b>Sample Comments:</b> <b>Soil results have been calculated and reported on a dry weight basis unless otherwise noted.</b>					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis.					

<b>Water (Moisture) Content Dried at 105 ± 5°C</b>	<b>Aliquot ID:</b> 76840-004	<b>Matrix:</b> Soil/Solid								
<b>Method:</b> ASTM D2216-10										
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation	Analysis	A. Date	A. Batch	Init.
† 1. Percent Moisture (Water Content)	8		%	1	1.0	01/09/17	MC170109	01/10/17	MC170109	BMG

<b>Polychlorinated Biphenyls (PCBs)</b>	<b>Aliquot ID:</b> 76840-004	<b>Matrix:</b> Soil/Solid								
<b>Method:</b> EPA 3546/EPA 8082A										
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation	Analysis	A. Date	A. Batch	Init.
1. Aroclor-1016	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT
2. Aroclor-1221	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT
3. Aroclor-1232	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT
4. Aroclor-1242	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT
5. Aroclor-1248	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT
6. Aroclor-1254	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT
7. Aroclor-1260	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT
† 8. Aroclor-1262	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT
† 9. Aroclor-1268	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT

1914 Holloway Drive 11766 E. Grand River 8660 S. Mackinaw Trail	Holt, MI 48842 Brighton, MI 48116 Cadillac, MI 49601	T: (517) 699-0345 T: (810) 220-3300 T: (231) 775-8368	F: (517) 699-0388 F: (810) 220-3311 F: (231) 775-8584
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Client Identification:	<b>Envirologic Technologies, Inc.</b>	Sample Description:	<b>SB-106 @ 3'</b>	Chain of Custody:	<b>135185</b>
Client Project Name:	<b>KCBRA (160362)</b>	Sample No:	<b>5</b>	Collect Date:	<b>01/05/17</b>
Client Project No:	<b>160362</b>	Sample Matrix:	<b>Soil/Solid</b>	Collect Time:	<b>12:25</b>
<b>Sample Comments:</b> <b>Soil results have been calculated and reported on a dry weight basis unless otherwise noted.</b>					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis.					

<b>Water (Moisture) Content Dried at 105 ± 5°C</b>	<b>Aliquot ID:</b> 76840-005	<b>Matrix:</b> Soil/Solid								
<b>Method:</b> ASTM D2216-10										
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation	Analysis	A. Date	A. Batch	Init.
† 1. Percent Moisture (Water Content)	13		%	1	1.0	01/09/17	MC170109	01/10/17	MC170109	BMG

<b>Polychlorinated Biphenyls (PCBs)</b>	<b>Aliquot ID:</b> 76840-005	<b>Matrix:</b> Soil/Solid								
<b>Method:</b> EPA 3546/EPA 8082A										
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation	Analysis	A. Date	A. Batch	Init.
1. Aroclor-1016	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT
2. Aroclor-1221	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT
3. Aroclor-1232	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT
4. Aroclor-1242	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT
5. Aroclor-1248	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT
6. Aroclor-1254	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT
7. Aroclor-1260	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT
† 8. Aroclor-1262	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT
† 9. Aroclor-1268	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT

1914 Holloway Drive 11766 E. Grand River 8660 S. Mackinaw Trail	Holt, MI 48842 Brighton, MI 48116 Cadillac, MI 49601	T: (517) 699-0345 T: (810) 220-3300 T: (231) 775-8368	F: (517) 699-0388 F: (810) 220-3311 F: (231) 775-8584
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Client Identification:	<b>Envirologic Technologies, Inc.</b>	Sample Description:	<b>SB-106 @ 3' MS</b>	Chain of Custody:	<b>135185</b>
Client Project Name:	<b>KCBRA (160362)</b>	Sample No:	<b>6</b>	Collect Date:	<b>01/05/17</b>
Client Project No:	<b>160362</b>	Sample Matrix:	<b>Soil/Solid</b>	Collect Time:	<b>12:25</b>
<b>Sample Comments:</b> Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis.					

<b>Water (Moisture) Content Dried at 105 ± 5°C</b>						<b>Aliquot ID:</b> 76840-006	<b>Matrix: Soil/Solid</b>							
<b>Method: ASTM D2216-10</b>						<b>Description: SB-106 @ 3' MS</b>								
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	<b>Preparation</b>		<b>Analysis</b>						
						P. Date	P. Batch	A. Date	A. Batch	Init.				
† 1. Percent Moisture (Water Content) <b>12</b> % 1 1.0 01/09/17 MC170109 01/10/17 MC170109 BMG														
<b>Polychlorinated Biphenyls (PCBs)</b>														
<b>Method: EPA 3546/EPA 8082A</b>														
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	<b>Preparation</b>		<b>Analysis</b>						
						P. Date	P. Batch	A. Date	A. Batch	Init.				
1. Aroclor-1016	<b>630</b>		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT				
2. Aroclor-1221	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT				
3. Aroclor-1232	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT				
4. Aroclor-1242	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT				
5. Aroclor-1248	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT				
6. Aroclor-1254	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT				
7. Aroclor-1260	<b>810</b>		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT				
‡ 8. Aroclor-1262	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT				
‡ 9. Aroclor-1268	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT				

Client Identification:	<b>Envirologic Technologies, Inc.</b>	Sample Description:	<b>SB-106 @ 3' MSD</b>	Chain of Custody:	<b>135185</b>
Client Project Name:	<b>KCBRA (160362)</b>	Sample No:	<b>7</b>	Collect Date:	<b>01/05/17</b>
Client Project No:	<b>160362</b>	Sample Matrix:	<b>Soil/Solid</b>	Collect Time:	<b>12:25</b>
<b>Sample Comments:</b> <b>Soil results have been calculated and reported on a dry weight basis unless otherwise noted.</b>					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis.					

<b>Water (Moisture) Content Dried at 105 ± 5°C</b>						<b>Aliquot ID:</b> 76840-007	<b>Matrix: Soil/Solid</b>			
<b>Method: ASTM D2216-10</b>						<b>Description: SB-106 @ 3' MSD</b>				
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	<b>Preparation</b>		<b>Analysis</b>		
						P. Date	P. Batch	A. Date	A. Batch	Init.
† 1. Percent Moisture (Water Content)	13		%	1	1.0	01/09/17	MC170109	01/10/17	MC170109	BMG

<b>Polychlorinated Biphenyls (PCBs)</b>						<b>Aliquot ID:</b> 76840-007	<b>Matrix: Soil/Solid</b>			
<b>Method: EPA 3546/EPA 8082A</b>						<b>Description: SB-106 @ 3' MSD</b>				
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	<b>Preparation</b>		<b>Analysis</b>		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Aroclor-1016	590		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT
2. Aroclor-1221	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT
3. Aroclor-1232	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT
4. Aroclor-1242	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT
5. Aroclor-1248	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT
6. Aroclor-1254	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT
7. Aroclor-1260	680		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT
† 8. Aroclor-1262	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT
† 9. Aroclor-1268	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT

Client Identification:	<b>Envirologic Technologies, Inc.</b>	Sample Description:	<b>SB-107 @ 3'</b>	Chain of Custody:	<b>135185</b>
Client Project Name:	<b>KCBRA (160362)</b>	Sample No:	<b>8</b>	Collect Date:	<b>01/05/17</b>
Client Project No:	<b>160362</b>	Sample Matrix:	<b>Soil/Solid</b>	Collect Time:	<b>12:40</b>
<b>Sample Comments:</b> <b>Soil results have been calculated and reported on a dry weight basis unless otherwise noted.</b>					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis.					

<b>Water (Moisture) Content Dried at 105 ± 5°C</b>						<b>Aliquot ID:</b> 76840-008	<b>Matrix: Soil/Solid</b>			
<b>Method:</b> ASTM D2216-10						<b>Description:</b> SB-107 @ 3'				
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	<b>Preparation</b>		<b>Analysis</b>		
						P. Date	P. Batch	A. Date	A. Batch	Init.
† 1. Percent Moisture (Water Content)	10		%	1	1.0	01/09/17	MC170109	01/10/17	MC170109	BMG

<b>Polychlorinated Biphenyls (PCBs)</b>						<b>Aliquot ID:</b> 76840-008	<b>Matrix: Soil/Solid</b>			
<b>Method:</b> EPA 3546/EPA 8082A						<b>Description:</b> SB-107 @ 3'				
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	<b>Preparation</b>		<b>Analysis</b>		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Aroclor-1016	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT
2. Aroclor-1221	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT
3. Aroclor-1232	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT
4. Aroclor-1242	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT
5. Aroclor-1248	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT
6. Aroclor-1254	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT
7. Aroclor-1260	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT
† 8. Aroclor-1262	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT
† 9. Aroclor-1268	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT

Client Identification:	<b>Envirologic Technologies, Inc.</b>	Sample Description:	<b>M-2S</b>	Chain of Custody:	<b>135185</b>
Client Project Name:	<b>KCBRA (160362)</b>	Sample No:	<b>9</b>	Collect Date:	<b>01/05/17</b>
Client Project No:	<b>160362</b>	Sample Matrix:	<b>Soil/Solid</b>	Collect Time:	<b>NA</b>
<b>Sample Comments:</b> <b>Soil results have been calculated and reported on a dry weight basis unless otherwise noted.</b>					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis.					

<b>Water (Moisture) Content Dried at 105 ± 5°C</b>						<b>Aliquot ID:</b> 76840-009	<b>Matrix: Soil/Solid</b>			
<b>Method: ASTM D2216-10</b>						<b>Description: M-2S</b>				
<b>Parameter(s)</b>	<b>Result</b>	<b>Q</b>	<b>Units</b>	<b>Reporting Limit</b>	<b>Dilution</b>	<b>Preparation</b>		<b>Analysis</b>		
† 1. Percent Moisture (Water Content)	9		%	1	1.0	01/09/17	MC170109	01/10/17	MC170109	BMG

<b>Polychlorinated Biphenyls (PCBs)</b>						<b>Aliquot ID:</b> 76840-009	<b>Matrix: Soil/Solid</b>			
<b>Method: EPA 3546/EPA 8082A</b>						<b>Description: M-2S</b>				
<b>Parameter(s)</b>	<b>Result</b>	<b>Q</b>	<b>Units</b>	<b>Reporting Limit</b>	<b>Dilution</b>	<b>Preparation</b>		<b>Analysis</b>		
1. Aroclor-1016	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT
2. Aroclor-1221	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT
3. Aroclor-1232	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT
4. Aroclor-1242	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT
5. Aroclor-1248	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT
6. Aroclor-1254	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT
7. Aroclor-1260	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT
† 8. Aroclor-1262	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT
† 9. Aroclor-1268	U		µg/kg	100	5.0	01/10/17	PS17A10B	01/10/17	SA17A10A	TKT

**Definitions/ Qualifiers:**

- A: Spike recovery or precision unusable due to dilution.
- B: The analyte was detected in the associated method blank.
- E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
- J: The concentration is an estimated value.
- M: Modified Method
- U: The analyte was not detected at or above the reporting limit.
- X: Matrix Interference has resulted in a raised reporting limit or distorted result.
- W: Results reported on a wet-weight basis.
- \*: Value reported is outside QC limits

**Exception Summary:**

- G- : Recovery of the associated Surrogate Compound exceeds the lower control limit. Results may be biased low.



Accreditation Number(s):

**T104704518-16-5 (TX)**



## Analytical Laboratory

<b>1914 Holloway Drive</b>	<b>8660 S. Mackinaw Trail</b>
<b>Holt, MI 48842</b>	<b>Cadillac, MI 49601</b>
<b>Phone: 517 699 0345</b>	<b>Phone: 231 775 8368</b>
<b>Fax: 517 699 0388</b>	<b>Fax: 231 775 8584</b>
<b>email: lab@fiberlec.us</b>	

**Industrial Hygiene Services, Inc.**

**1914 Holloway Drive  
Holt, MI 48842**  
**Phone: 517 699 0345**  
**Fax: 517 699 0382**  
**email: asbestos@fiberlec.us**

**Geoprobe  
11766 E. Grand River  
Brighton, MI 48116  
Phone: 810 220 3300  
Fax: 810 220 3311**

Chain of Custody #  
**135185**  
PAGE 1 of 1

Client Name:	Envirologic Technologies				MATRIX (SEE RIGHT CORNER FOR CODE)	PARAMETERS				Turnaround	Matrix Code				Deliverables
Contact Person:	Dave Stegink					# OF CONTAINERS					24 hour RUSH (surcharge applies)	<input checked="" type="checkbox"/>	S Soil	GW Ground Water	<input type="checkbox"/> Level 2
Project Name/ Number:	KCBRA / 160362										48 hour RUSH (surcharge applies)	<input type="checkbox"/>	A Air	SW Surface Water	<input type="checkbox"/> Level 3
QUOTE#											72 hour RUSH (surcharge applies)	<input type="checkbox"/>	O Oil	WW Waste Water	<input type="checkbox"/> Level 4
Purchase Order#									Standard (5-7 bus. days)	<input checked="" type="checkbox"/>	P Wipe	X Other: Specify			
Lab Sample #	Date	Time	Client Sample #	Client Sample Descriptor	PRESERVED? (Y/N)	PNA's (8270)	PCB's (8082)	Remarks:				<input type="checkbox"/> FES Drilling Services			
	1/5/17	11:15A	SB-100 e1'	[REDACTED]											
		11:27A	SB-101 e1'	ms/NSD [REDACTED]											
		11:30A	SB-102 e1'	[REDACTED]	SIN +										
		11:35A	SB-103 e1'	[REDACTED]	SIN +										
		11:55A	SB-104 e1'	[REDACTED]	SIN +										
		12:05P	SB-105 e1'	[REDACTED]	SIN +										
		12:28P	SB-106 e3'	ms/NSD [REDACTED]	SIN +										
		12:40P	SB-107 e3'	[REDACTED]	SIN +										
			71-15	[REDACTED]	SIN +										
			M-2S	[REDACTED]	SIN +										
Comments:															
Relinquished By:	<i>Robert Walker</i>				Date/ Time	Received By:				<i>M. D. Gullion</i>					
Relinquished By:	<i>DJ Hidley</i>				Date/ Time	Received By:				<i>M. D. Gullion</i>					
Relinquished By:	<i>DJ Hidley</i>				Date/ Time	Received By Laboratory:									
LAB USE ONLY: Fibertec project number: Laboratory Tracking: Temperature at Receipt:															
76840															
COC Revision: February, 2013															

74840

COC Revision: February, 2013

1,80c

**TERMS & CONDITIONS ON BACK**

**Quality Control Report**  
**Preparation Batch QC Summary**  
**Gas Chromatography - Mass Spectrometry (Semivolatiles)**  
**Soil/Solid**

Batch ID: PS17A09B  
 Page: 1 of 1  
 Date: 01/13/17

Preparation Batch: PS17A09B Preparation Date: 01/09/17

Parameter	Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)			Run Code			
	Result µg/kg	RL µg/kg	Q	Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
1. Acenaphthene	U	330		2,896	5,333	54	50 - 114						MB-1	LCS-1	
2. Acenaphthylene	U	330		3,185	5,333	60	53 - 115						MB-1	LCS-1	
3. Anthracene	U	330		3,078	5,333	58	48 - 119						MB-1	LCS-1	
4. Benzo(a)anthracene	U	330		3,392	5,333	64	56 - 120						MB-1	LCS-1	
5. Benzo(a)pyrene	U	330		3,898	5,333	73	57 - 122						MB-1	LCS-1	
6. Benzo(b)fluoranthene	U	330		3,690	5,333	69	50 - 131						MB-1	LCS-1	
7. Benzo(ghi)perylene	U	330		3,725	5,333	70	41 - 132						MB-1	LCS-1	
8. Benzo(k)fluoranthene	U	330		3,736	5,333	70	39 - 137						MB-1	LCS-1	
9. Chrysene	U	330		3,489	5,333	65	53 - 124						MB-1	LCS-1	
10. Dibenz(a,h)anthracene	U	330		3,995	5,333	75	53 - 126						MB-1	LCS-1	
11. Fluoranthene	U	330		3,776	5,333	71	48 - 135						MB-1	LCS-1	
12. Fluorene	U	330		3,337	5,333	63	49 - 126						MB-1	LCS-1	
13. Indeno(1,2,3-cd)pyrene	U	330		3,998	5,333	75	51 - 132						MB-1	LCS-1	
14. Indeno(1,2,3-cd)pyrene	U	330		4,565	5,333	86	51 - 132						MB-1	LCS-1	
15. 2-Methylnaphthalene	U	330		3,347	5,333	63	46 - 105						MB-1	LCS-1	
16. Naphthalene	U	330		3,175	5,333	60	53 - 110						MB-1	LCS-1	
17. Phenanthrene	U	330		3,202	5,333	60	53 - 119						MB-1	LCS-1	
18. Pyrene	U	330		3,453	5,333	65	55 - 127						MB-1	LCS-1	

System Monitoring Compounds (Surrogates):	Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)			Run Code			
	Result µg/kg	Spike µg/kg	Rec. %	Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
1. 2-Fluorobiphenyl(S)	3,295	5,333	62	2,815	5,333	53	49 - 115						MB-1	LCS-1	
2. 2-Fluorobiphenyl(S)	3,295	5,333	62	2,815	5,333	53	49 - 115						MB-1	LCS-1	
3. 4-Terphenyl-d14(S)	3,831	5,333	72	3,202	5,333	60	48 - 117						MB-1	LCS-1	
4. 4-Terphenyl-d14(S)	3,831	5,333	72	3,202	5,333	60	48 - 117						MB-1	LCS-1	
5. 1-Fluoronaphthalene(S)	3,155	5,333	59	2,786	5,333	52	46 - 114						MB-1	LCS-1	
6. 1-Fluoronaphthalene(S)	3,155	5,333	59	2,786	5,333	52	46 - 114						MB-1	LCS-1	

**Definitions/ Qualifiers:**

**U:** The analyte was not detected at or above the Reporting Limit (RL).  
**\*\*:** Value reported is outside QC limits

**Run Code (Analysis Sequence/Run Time):**

MB-1	S617A09B	01/09/17 14:50
LCS-1	S617A09B	01/09/17 15:33

**Exception Summary:**

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

**Report Generated By:**

By Emily Kennedy at 4:18 PM, Jan 13, 2017

**Quality Control Report**  
**Preparation Batch QC Summary**  
**Gas Chromatography - Electron Capture Detector**  
**Soil/Solid**

Batch ID: PS17A10B  
 Page: 1 of 1  
 Date: 01/13/17

Preparation Batch: PS17A10B Preparation Date: 01/10/17

Parameter	Method Blank (MB)			Laboratory Control Sample (LCS)						LCS Duplicate (LCD)			Run Code		
	Result µg/kg	RL µg/kg	Q	Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
1. Aroclor-1016	U	100		607	667	91	60 - 120						MB-2	LCS-2	
2. Aroclor-1260	U	100		780	667	117	60 - 120						MB-2	LCS-2	
System Monitoring Compounds (Surrogates):	Method Blank (MB)			Laboratory Control Sample (LCS)						LCS Duplicate (LCD)			Run Code		
	Result µg/kg	Spike µg/kg	Rec. %	Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
1. Decachlorobiphenyl-PCB(S)	65.9	66.7	99	76.0	66.7	114	40 - 143						MB-2	LCS-2	
2. 2,4,5,6-Tetrachloro-m-xylene-PCB(S)	53.5	66.7	80	51.2	66.7	77	42 - 133						MB-2	LCS-2	

**Definitions/ Qualifiers:**

U: The analyte was not detected at or above the Reporting Limit (RL).  
 \*: Value reported is outside QC limits

**Run Code (Analysis Sequence/Run Time):**

MB-2	SA17A10A	01/10/17 16:25
LCS-2	SA17A10A	01/10/17 16:44

**Exception Summary:**

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

**Report Generated By:**

By Emily Kennedy at 4:18 PM, Jan 13, 2017

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